

CHPS-5.4.1 Installation Guide

This document will guide you through the CHPS installation. CHPS represents a number of components and individual applications that have been tied together and combined into a functional unit. The individual applications which are being delivered at this time within CHPS are listed below. **Call the NCF at (301) 713-9344 and open a ticket on CHPS installation and open a Redmine ticket so FSIT can keep track of the installations.**

For all individual application packages:

- Please use the Release Notes and Installation instructions that are found in the documentation folder under the CHPS-5.4.1 folder (referenced in Step 5 below).
- All application packages (tar files) are included in this package in the CHPS-5.4.1 folder; therefore there is no need to download them from the FTP site (as may be noted in any of the CHPS component Install Notes).

Individual Application Packages:

- OHD-CORE-CHPS-4.5.a
 - OHD-CORE-CHPS-4.5.a.20161024.tar.gz
 - OHD-CORE-CHPS-4.5.a_Release Notes.pdf
 - OHD-CORE-CHPS-4.5.a_Install Notes.pdf

OHD-CORE-CHPS-4.5.a represents newly released software and should be installed by all RFCs. Sites that participated in the beta testing process should reinstall all new software components. Please contact FSIT for installation support.

1. Log into any lx workstation as user *fews*. Navigate to the install location and create a new directory called `Oct2016` (using the month and year of the release).

```
$ cd /awips/chps_share/install/  
$ mkdir Oct2016
```

2. Copy the CHPS 5.4.1 tar release package to the new directory created above.

```
$ cp /data/fxa/INSTALL/CHPS-5.4.1.tar.gz Oct2016/.
```

3. Extract CHPS-5.4.1.tar.gz. You will see the installation package and a documentation directory.

```
$ cd Oct2016  
$ tar -xzf CHPS-5.4.1.tar.gz
```

4. After extracting CHPS-5.4.1, you can begin installing the individual components following the guidelines outlined in the steps below. Please read all documentation before installing.
 - a. CHPS-5.4.1 needs to be installed and tested on your Dev/Test system RP3 (CHPS7,8,9) first, prior to installation on your Operational systems RP1 (CHPS1,2,3) and RP2 (CHPS4,5,6).

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- b. Suspend any synchronization on MC02. Begin the CHPS upgrade procedures on RP3 starting with the OHD-CORE-4.5.a Install Notes. After successful installation and testing on your Dev/Test system, you can move on to upgrading your Operational systems.
 - c. Wait until all of your Operations have completed for the day before beginning the CHPS-5.4.1 upgrade for your Operational systems.
 - d. Stop all synchronization between RP1 and RP2.
 - e. Begin the CHPS upgrade procedures on RP2 starting with the OHD-CORE-4.5.a Install Notes.
 - f. Prepare RP2 for operations the next morning by failing over to the backup system.
 - g. Perform operations on the upgraded backup system. If operations are successful, begin the CHPS upgrade procedures on RP1 as you did for RP2 starting with the OHD-CORE-4.5.a Install Notes.
 - h. Upon successfully upgrading your RP1 to CHPS-5.4.1, synchronization between RP1 and RP2 can be established again.
 - i. Prepare the RP1 system for operations next morning; preparation includes verifying automated forecasts complete, clients can access master controller and submit forecasts, and data ingest/export processes are functioning.
 - j. Perform operations on RP1 and validate the installation was successful.
5. The release and install notes for each component can be found in the documentation directory below. Formatting maybe different when viewed from a workstation. These documentation can also be found online here: <http://www.nws.noaa.gov/oh/hrl/general/indexdoc.htm>

